

COMMUNIQUE SYSTEM WITH DYNAMIC BANDWIDTH ALLOCATION IN CELLULAR COMMUNICATION NETWORKS

Abstract

5 The commune system for cellular communication networks operates with
existing cellular communication networks to provide commune communication
services to subscribers. The commune can be unidirectional (broadcast) or
bidirectional (interactive) in nature and the extent of the commune can be network-
10 wide broadcast or narrowcast, where one or more cells and/or cell sectors are grouped
to cover a predetermined geographic area or demographic population or subscriber
interest group to transmit information to subscribers who populate the target audience
for the narrowcast transmissions. The commune system for cellular communication
networks can dynamically allocate the available bandwidth to thereby serve subscribers
5 with more control channel(s) and/or control channel bandwidth and/or communication
channels and/or communication channels of greater bandwidth as the need presents
itself. The dynamic bandwidth allocation can simultaneously occur in multiple domains:
time, code, frequency to thereby serve the needs of the subscribers to receive
Communes. The content of these transmissions can be multi-media in nature and
20 comprising a combination of various forms of media: audio, video, graphics, text, data
and the like. The subscriber terminal devices used to communicate with the commune
system for cellular communication networks are typically full function communication
devices that include: WAP enabled cellular telephones, personal digital assistants, Palm
Pilots, personal computers, and the like or special commune only communication
25 devices that are specific to commune reception; or MP3 audio players (essentially a
radio receiver or commune radio); or an MPEG4 video receiver (commune TV); or
other such specialized communication device.